

THUE MUNICIPAL STRAILES: OFFICIALITY

TO ALL TO WHOM: THESE: PRESENTS: SHALL; COME;

USDA- Agriculture Research Service

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, AR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN SUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY ECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF

34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'N7101'

In Vertimonn Ancress. I have hereunto set my hand and caused the seal of the Plant Dariety Protection Office to be affixed at the City of Washington, D.C. this ninth day of April, in the year two thousand two.

Demyer

Commissioner Plant Varioty Protoction Office Agricultural Marketing Service Auricultura

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTE

The following state neals are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION F	OR PLANT	VARIETY PROTECTION collection burden statemer	i CERTIFIC nt on reverse)	ATE Application is n	equired in order to determine if a ;). Information is held confidential	slant variety p until certificat	rotection certificate is to be issued to is issued (7 U.S.C. 2426).	
1 NAME OF OWNER	USDA- A	gricultural Resea	ırch Serv	vice	2. TEMPORARY DESIGNATE EXPERIMENTAL NAME NTCPR92-100	ION OR	3. VARIETY NAME N7101	
4 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)					5. TELEPHONE (include are	a code)	FOR OFFICIALLUSE ONLY	
	3127 Lig Box 763:				(919) 513-1480 6: FAX (include area code) (919) 856-4598		RVPO NUMBER	
		NC 27607					0 0 1 0 0 2 8 1	
F THE OWNER NAME ORGANIZATION (COOPER	oration, partnership	, association, etc.) -	8. IF INCOR STATE O	PORATED, GIVE FINCORPORATION	9. DATE OF INCORPORATE	ОИ	9/14/2001	
0 NAME AND ADDRESS	OF OWNER REF	RESENTATIVE(S) TO SERVE IN TI	IIS APPLICATIO	N. (First person listed will r	receive all papers)		FILING AND EXAMINATION FEES:	
	3127 Lig Box 7631 Raleigh				· · · · · · · · · · · · · · · · · · ·		E 2, 705.00 R DATE 9/19/2001 CERTIFICATION FEE: 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
1 TELEPHONE (Include		12. FAX (Include area code)	_	3. E_MAIL		14. CROP	KIND (Common Name)	
(919) 513-	-1480	(919) 8560459	8 t	ommy_carter	my_carter@ncsu.edu soybean			
~~				5. FAMILY NAME (Botania Leguminosae	HYRRID?			
a. [2]: Exhibit A. Or b. [3] Exhibit G. St c. [3] Exhibit C. Of d. [7] Exhibit D. Ac e. [3] Exhibit E. St	ngin and Breeding atement of Distinct ojective Description stitional Description atement of the Bas			20. DOES THE OF GENER	YES (If 'yes', answerkems 20 and 21 below) OWNER SPECIFY THAT SEED (ATIONS? YES	THIS VAR	iely Protection Act) NO (If "no," go to item 22) ETY BE LIMITED AS TO NUMBER NO	
verification the repository) g. [7] Filing and Ex	at tissue culture wi amination Fee (\$2)	Il be depositied and maintained in an 450), made payable to "Treasurer of Protection Office)	approved public		TEM 20, WHICH CLASSES OF FOUNDATION REGIS	_	3	
OTHER COUNTRIES?	CLUDING ANY HA BEEN SOLD, DISP	RVESTED MATERIAL) OR A HYBR OSED OF, TRANSFERRED, OR US	ID PRODUCED SED IN THE U.S.	OR PROPERTY	RIGHT (PLANT BREEDER'S RIC	HI ORPAII		
YES MO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				JSE IF YES, PLE	YES ASE GIVE COUNTRY, DATE OF E NUMBER. (Please use space in	FILING OR IS	SSUANCE AND ASSIGNED	
for a tuber propagated v The undersigned owner and is entitled to protect	ariety a tissue cult (s) is(are) the own ion under the prov	f basic seed of the variety will be fun une will be deposited in a public repo er of this sexually reproduced or tube isions of Section 42 of the Plant Van entation herein can Jeopardize prote	ository and maint or propagated pla ety Protection Ac	ained for the duration of th int variety, and believe(s) ti i.	e certificate.			
CNATURE OF OWNER (Carter)				SIGNATURE OF	OWNER			
WE (Please print or type) The Oma S	TT . F. Carter dr				vint or type)			
PACITY OR TITLE DATE				CAPACITY OR 1	TITLE		DATE	

ADDENDUM TO SAT470 RECONOVIB. 2001 Form Approved CMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following stetements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT (Instructions and information colle	VARIETY PROTECTION ection burden statement on re	CERTIFICATE	Application is I (7 U.S.C. 2421	equired in order to determine if a). Information is held confidentia	plant variety I until certific	r protection certificate is to be issued rate is issued (7 U.S.C. 2426).
1. NAME OF OWNER		•	-1.	2. TEMPORARY DESIGNAT EXPERIMENTAL NAME	ION OR	3. VARIETY NAME N7101
4. ADDRESS (Street and No., or R.F.D. No.	, City, State, and ZIP Code, and Cour	ntry)		5. TELEPHONE (include area code) FOR OFFIC		FOR OFFICIAL USE ONLY
		•				PVPO NUMBER
				6. FAX (include area code)		FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERS ORGANIZATION (corporation, partnership	SON", GIVE FORM OF , association, etc.)	8. IF INCORPORAT STATE OF INCO		9. DATE OF INCORPORATION	ON	·
10. NAME AND ADDRESS OF OWNER REF	RESENTATIVE(S) TO SERVE IN TH	IS APPLICATION. (First		eceive all papers)	14. CROP	FILING AND EXAMINATION FEES: \$ CONTROL CERTIFICATION FEE: CERTIFICATION FEE: CERTIFICATION FEE: CERTIFICATION FEE: CERTIFICATION FEE: CERTIFICATION FEE:
verification that tissue culture w repository)	History of the Variety ness n of Variety n of the Variety (Optional) is of the Owner's Ownership untreated seeds or, for tuber propaga. ill be depositied and maintained in an	ted varieties, approved public ···	20. DOES THE C VARIETY BE IF YES, WHICE	SEED? See Section 83(a) of S (if "yes", answer items 20 and 21 below) WANER SPECIFY THAT SEED C LIMITED AS TO NUMBER OF C CH CLASSES? WANER SPECIFY THAT THE CL TO NUMBER OF GENERATION CIFY THE	OF THIS CLASSES? TION ASSES BE	RIETY BE SOLD AS A CLASS OF unity Protection Act) NO (If "no," go to item 22) YES NO REGISTERED X YES NO REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? YES NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			23. IS THE VARII PROPERTY I YES	RIGHT <i>(PLANT BREEDER'S RIG</i>	THE VARIE SHT OR PAT	TY PROTECTED BY INTELLECTUAL FENT)? NO FE AND ASSIGNED
4. The owners declare that a viable sample of for a tuber propagated variety a tissue cult. The undersigned owner(s) is(are) the owner and is entitled to protection under the provious owner(s) is(are) informed that false represeignature of owner.	ure will be deposited in a public repo er of this sexually reproduced or tuber sions of Section 42 of the Plant Varie	sitory and maintained for propagated plant varied by Protection Act.	r the duration of the y, and believe(s) the	e certificate. nat the variety is new, distinct, un		
AME (Please print or type)	DATE		NAME (Please pri	: : : : : : : : : : : : : : : : : : :	ملر	DATE

- 18A.
- 1-"N7101" (NTCPR92-100) was developed by Dr. Thomas E. Carter, Jr., Research Geneticist, USDA-ARS, Raleigh, North Carolina. N7101 is a small-seeded late-maturing soybean adapted to the South Atlantic Coast and Southeastern USA and developed for its potential use in the Japanese soyfoods market. N7101, a full sib of N7102, traces to a different F₂ plant from the same cross.
- 2- N7101 previously identified as 'NTCPR92-100' is an F₆-derived selection from the cross of the small-seeded genotypes 'Vance' and 'Jizuka'. Vance was derived from the cross of 'Essex' and an unknown wild (Glycine soja, Sieb. and Zucc.) or semi-wild soybean. Jizuka is a Japanese soyfoods variety. Vance and Jizuka were crossed in 1987 at Raleigh, NC, and the F₁ was grown in 1988. The F₂ plants were grown at Clayton, NC in 1989 and fourteen late-maturing single plants were selected and harvested. The progeny from each F₂ plant were grown and bulk harvested at the USDA-ARS Tropical Agriculture Research Station (TARS), Isabela, PR, the following winter. The F₄ plants were planted at Clayton, NC in 1990, allowed to stand well past maturity, and then rated visually for resistance to shattering. Apparent resistant plants were harvested and assayed for 100-seed weight and visual appearance. Progeny rows of 31 promising F₄ plants were grown and bulk harvested at TARS the following winter. In 1991, individual F₆ plants were harvested and assayed for 100-seed weight and visual appearance at Clayton, NC. Approximately 200 F₆ plants were selected for progeny increase at TARS that winter and 28 were yield tested subsequently at Plymouth, NC in 1992.
- 3- In five years of testing N7101 has shown stable performance in relation to other specialty-type cultivars.
- 4- Off type hila color (slightly darker or lighter) can occur at a rate less than 2%.
- 18B.
- N7101 has yellow seed with shiny luster and clear hila, purple flowers, gray pubescence, determinate growth habit, and narrow leaves. N7101 is resistant to Soybean Mosaic Virus, frog eye leaf spot (*Cercospora sojina* Hara), and bacterial pustule (*Xanthomonas campestris pv. glycines* (Nakano) Dye) but susceptible to root knot (*Meloidogyne*) species of nematode. N7101 is moderately resistant to pod dehiscence (shattering) after maturation, but can exhibit more than 20% pod dehiscence if harvest is delayed extensively. In North Carolina, N7101 is lodging susceptible,

exhibiting an average lodging score of 3.9 and 3.7, respectively, compared with Cook's average score of 3.2 over two locations [a score of 1 indicates no lodging while 5 indicates a prostrate plant]. The small seed size and lower yield potential of N7101, compared to commodity-type varieties, limits its use to specialty purposes.

N7101 was yield tested at nine North Carolina locations from 1993 through 1997 and at five southern regional locations in 1994 as part of the USDA Cooperative Uniform Soybean Yield Trials. N7101 and N7102 trace to different F₂ plants from the same cross.

N7101 is later in maturing and more susceptible to pod shattering after maturity than N7102. N7101 has smaller seed and is more lodging susceptible than N7103.

18C. See attached form.

18D. None.

18E. See attached form.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

_	NAME OF A	PLICANT(S) US	BDA- Agricult	ural Rese	arch Sei	rvice	FOR OFFICIAL USE ONLY	
	ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)							
	٠.	3127 Ligo Box 7631			t -		variety name N7101	
_	. ·	Raleigh N	IC 27607				TEMPORARY OR EXPERIMENTAL DESIGNATION NTCPR92-100	<u>-</u>
	PLEASE R	EAD ALL INSTRUCT	ONS CAREFULLY:	Place the appro	priate numbe	r that describes the variets	al character of this variety in the boxes below	 ĭ-
		in the first box (e.g.	0 9 9 or				or less respectively. Data for quantitative	
	plant charac	cters should be based or	a minimum of 100 pl	ants. Compare	itive data shoi	ıld be determined from va	rieties entered in the same trial. Royal	
	Horticultur	al Society or any recogn	nized color standard m	ay be used to d	etermine plan	t colors; designate system	used:	
-	Please answ	er all questions for you	variety; lack of respo	nse may delay _l	progress of yo	ur application.		
A	MORE	HOLOGY						_
Se	eed Shape	1 = Spherical				ical-Flattened	LVW= 1.4 L/T= 1.0	
Ĺ	2	(L/W, L/T, and	T/W ratios < 1.2)	(L/W ratio	> 1.2; L/T ratio <	1.2) $T/W = 1.3$	
		3 = Elongate (L/T ratio > 1.2	; T/W ratio < 1.2	:)	4 = Elonga (L/T-ratio	ate-Flattened > 1.2;T/W ratio >	1.2)	
Se	eed Coat (Color:					4	
	1	1 = Yellow	2 = Green	3 =	Brown	4 = Black	5 = Other (Please Specify)	
corrected Se 2	ed Coat I er applica 重	uster: 15 pomission 10/14/2001 1 = Dull	2 = Shiny					
Se	ed Size:							
	0 7	grams/100 se	eds					
Hi	lum Colo	7:						
	2	1 = Buff 6 = Black	2 = Yellow 7 = Other (<i>Pl</i>	3 = lease Specify	Brown)	4 = Gray	5 = Imperfect Black	
Co	tyledon C	olor:						
	2	1 = Yellow	2 = Green					

	•				
A. MORPHOLOGY (Con	tinued)				
Seed Protein Peroxidase Ac	tivity:				·
1 = Low 2	= High			200100	285
Hypocotyl Color:					
1 = Green 'Evans' or 'Davis'	2 = Green with Bro Bands below Cotyle 'Woodworth' or 'Tr	don	3 = Light Purple below Cotyledons 'Beeson' or 'Pickett 71'	4 = Dark Purple ex unifoliolate leaves ('Coker', or 'Hamp	'Hodgson',
Leaf Shape:					
1 = Lanceolate	2 = Oval 3 =	= Ovate	4 = Other (Please S)	pecify)	
Flower Color:					
2 1 = White	2 = Purple 3 =	- White w	ith a Purple Throat	**	
Pod Color:					•
1 = Tan	2 = Brown 3 =	Biack			
Pubescence Color:			· .		
1 = Gray	2 = Brown (Tawny)	3 = 1	Light Tawny		
Plant Habit:					
1 = Determinate2 =	Semi - Determinate	3 =]	Indeterminate 4 =	Intermediate	
Maturity Group:					
$ \begin{array}{c c} 1 & 000 \\ 6 & III \\ 11 & VIII \end{array} $	2 = 00 7 = IV 12 = IX		3 = 0 $8 = V$ $13 = X$	4 = I 9 = VI 14 = XI	5 = II 10 = VII 15 = XII
Maturity Subgroup:					,
9 Please enter a value f	rom 0 - 9				•
B. DISEASE REACTIONS	0 =	Not Teste	d 1 = Susceptible	2 = Resistant	3 = Tolerant
Bacterial					- Says May
Bacterial Pustule (Xa	nthomonas campestris	pv. glycii	ues (Nakano) Dye)		

Bacterial

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

Brown Spot (Septoria glycines Hemmi)

В.	DISEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
2	Seed Mottle (Soybean Mosaic Virus)			, *
Nem	atode			2001	00285
Soyb	ean Cyst Nematode (Heterodera glycines	Ichinohe)			V / 2 8 3
1	race 1 1 race 4	1 race))	•	
1	race 2 1 race 5	1 race:	l4 (former r. 4)	Ç	
1	race 3 1 race 6	Other	· (Please Specify)		
		en de la companya de La companya de la co	ન ૧૦ હોલુંગ ફોર્ટ હેરો ફાંગ મેં જોફોન છે.	, e i i seve et en avant avalles et e i til til	
0	Lance Nematode (Hoplolaimus colum	bus Sher)			
1	Southern Root Knot Nematode (Melo	oidogyne incognita (F	Cofoid & White) Chit	wood)	
1	Northern Root Knot Nematode (Melo	idogyne hapla Chitw	/ood)		
1	Peanut Root Knot Nematode (Meloid	ogyne arenaria (Neal) Chitwood)		
0	Reniform Nematode (Rotylenchus ren	iformus Linwood &	Olivera)		
1	Javanese Nematode (Meloidogyne java	unica (Treub) Chitwo	pod)		
	Other Nematode (Please Specify)		·		
C. PI	IYSIOLOGICAL RESPONSES	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0	Iron Chlorosis on Calcareous Soil		•		•
0	Phosphorus		·		
0	Boron				
0	Aluminum				
0	Salt				
0	Drought				
1	Other (Please Specify) pod shat	tering after ma	aturity		

В.	DISEASE REACTIONS (Continued) 0	= Not Tested	1 = Susceptible 2 = Resistant	3 = Tolerant				
	Frogeye Leaf Spot (Cercospora sojina H	ara)						
	race 1	ace 2	race 3	race 4				
	race 5	асе б	2 Other (Please Specify)	Resistant to local races				
,	•	,	i i	the field				
0	Target Spot (Corynespora cassiicola (Ber	k. & Curt.) Wei)	- 12 () () () () () () () () () (
0	Downey Mildew (Peronospora trifoliorum	ı var. <i>manchurica</i> (Naum.) Syd. ex Gäum) 2 0 0 1	00285				
Ô	Powdery Mildew (Microsphaera diffusa (ke. & Pk.)	egelskille fan it earlestigt yn earlestigt. • .					
0	Brown Stem Rot (Phialophora gregata (A	llington & Chambe	rlain) W. Gams.)					
0	Stem Canker (Diaporthe phaseolorum (Cl	ke. & Ell.) Sacc. var	•					
0	Pod and Stem Blight (Diaporthe phaseolog	rum (Cke. & Ell.) S	acc. var. <i>sojae</i> (Lehman) Wehm.)					
0	Purple Seed Stain (Cercospora kikuchii (T. Matsu. & Tomoyasu) Gardener)							
0	Rhizoctonia Root Rot (Rhizoctonia solani	Kühn)						
Phytop	hthora Root Rot (Phytophthora megasperma	Drechs. f. sp. glyc	inea (Kuan & Erwin))					
0]	·				
0	race 1 0 race 8 0	race 15	race 22					
0	race 2 race 9 0	race 16 0	race 23	7				
0	race 3 race 10 0 race 4 0 race 11 0	race 17	race 24					
0	race 4 race 11 race 5 race 12 0	race 18	race 25					
. 0	race 6 0 race 13 0	race 19 0	race 26					
0	race 7 race 14 0	race 21	Other (Please Specify):	en e				
Ô	Bud Blight (Tobacco Ringspot Virus)	Tace 21						
	o (amagapor i a do)							
	Yellow Mosaic (Bean Yellow Mosaic Virus)	•					
0	Cowpea Mosaic (Cowpea Chlorotic Virus)							
0	Pod Mottle (Bean Pod Mottle Virus)		·					

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	-	
0 Mexican Bean Beetle (Epilachna var	<i>ivestis</i> Mulsant)		2 Rossian	5 - Tolerant		
<u></u>	•					
O Potato Leaf Hopper (Empoasca faba	e (Harris))		200	10028	5	
Other (Please Specify)		NT Naid	·			
E. HERBICIDE REACTIONS	0 = Not Tested	1 0			_	
	v - Not Tested	1 = Susceptible	2 = Resistant			
O Metribuzin						
Strong May gain wife Properties 1			erie in terresione de la companya dela companya de la companya de			
0 Bentazone		·	•			
	•			•		
O Sulfonylurea						
_ outorymea			48			
		•	·			
1 Glyphosate		•		÷		
[]						
O Glufosinate	9.5					
			-			
0 Pendimethalin						
Other (Please Specify)		·				
F. TRANSGENIC COMPOSITION			· · · · · · · · · · · · · · · · · · ·			
•						
Has the development of the Subject Variety inc If yes, please complete the following information	cluded the insertion on requests*. Use a	or removal of genetic a	material?	YES X	NO	
1. Please state the vector's name:			, -			
rease state the vector's name:	4			•		
2. Please state the vector components:			and the second s			
3. Please describe the genetic material successfully transferred into the Subject Variety:						
4. Please describe the insertion protocol:		•				
* A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.						
G. BIOCHEMICAL MARKERS				***		
Diego deceribe and bird						
Please describe any biochemical information her (e.g. Simple Sequence Reneats, Restriction From	re which you believe	will be helpful in furt	her describing the	Subject Variety		
(e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.						

200100285

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERS	unui cermicale is issued (7 U.S.C. 2426).
1. NAME OF APPLICANT(S) USDA- Agricultural Research Service	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER NNTCPR92-100 N7101
4. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP, and Cound 3127 Ligon St. Box 7631 Raleigh NC 27607 8. Does the applicant own all rights to the variety? Mark an "X" in applicant own all rights to the variety?	(919) 513-1480 - (919) 856-4598 7. PVPO NUMBER 2 0 1 1 1 1 2 8 5
	ppropriate вюск. If no, please explain. X YES NO
9. Is the applicant (individual or company) a U.S. national or U.S. ba	sed company? YES X NO
If no, give name of country 10. Is the applicant the original owner? X YES	NO If no, please answer one of the following:
a. If original rights to variety were owned by individual(s), is (are) \mathbb{N}/\mathbb{A} TES \mathbb{N}/\mathbb{A} b. If original rights to variety were owned by a company(ies), is(and \mathbb{N}/\mathbb{A} TES	NO If no, give name of country re) the original owner(s) a U.S. based company? NO If no, give name of country
11. Additional explanation on ownership (if needed, use reverse for ex	xtra space):
Plant variety protection can be afforded only to owners (not licensees) who make the rights to the variety are owned by the original breeder, that person make the U.S. for the same genus	Rust be a U.S. national national of a UPOV member country or national of a country
If the rights to the variety are owned by the company which employed the member country, or owned by nationals of a country which affords similar If the applicant is an owner who is not the original owner, both the original	
·	final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.
According to the Paperwork Reduction Act of 1995, no persons are required to respond to	a collection of information unless it displays a valid OMB control number. The valid OMB control number for inflaction is estimated to average 10 minutes per response inclusions the time for recipitation instantions.

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